

Sinker mechanism for flat knitting machines.

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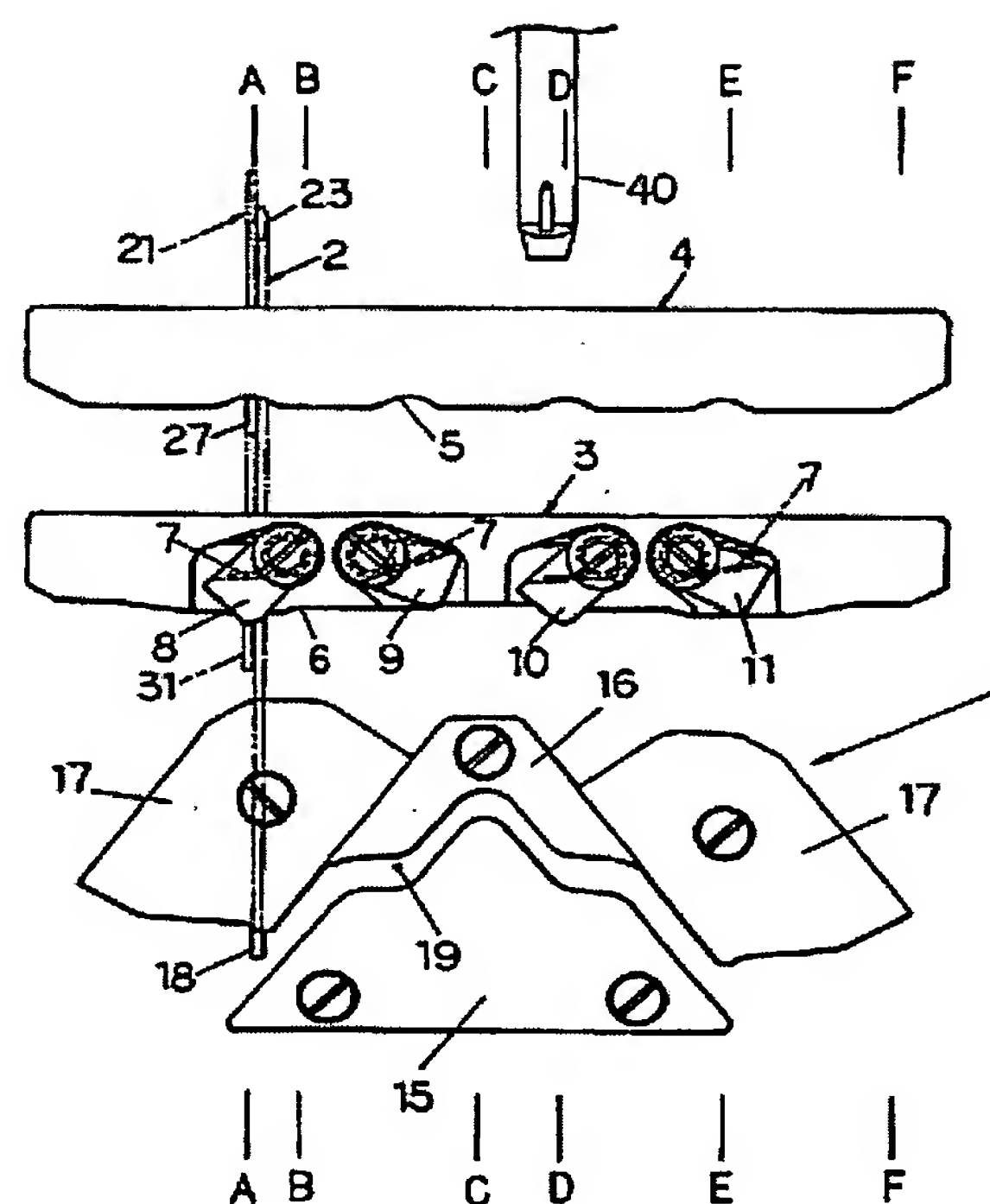
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A sinker mechanism which includes multiple knitting needles (2) placed in parallel above a needle bed (20) with each sinker (21) being mounted so that it can rock up and down so that its tip descends between adjacent knitting needles (2). A yarn-catching hook (26) is provided at one sinker end; downward pressure is applied by a spring (28) that can be removed from and replaced into the sinker so the yarn-catching hook (26) will drop between adjacent knitting needles (2), and this downward force is adjustable so the yarn-catching hook's position is a function of the tension in the yarn it is holding. The thickness of the upper half of the needle plate (22) is reduced by at least the thickness of the sinker, thereby creating a step, in which a semicircular concavity (32) is created under this cut-out area, and the needle plates (22) and knitting needles (2) are regularly spaced and mounted in parallel on the needle bed (20). This sinker also has a yarn-catching hook that positions the loop so that it has a contact surface (21) near the hook that touches the front cam (4), it has a surface in its middle that rests in the semicircular concavity of the needle plate (22), and it has a contact surface (31) at the other end that touches the rear cam (3). The sinker is located in the cut-out portion of the needle plate (22) with the capability to rock up and down so that its back end can be linked to the end of the needle plate, and that the plate and is configured so that an arm projects to touch the rear cam (3). A spacer is provided whose front end is adjacent to the sinker's middle portion when the sinker is joined to the needle plate, and the spacer's back end is joined to the needle plate beside the sinker at a point higher than the knitting needle.

Fig. 1



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